

# Scatter Plot Comparison of Math and Science Marks

## Aim

To create a scatter plot comparing Mathematics and Science marks of 10 students using Python and matplotlib.

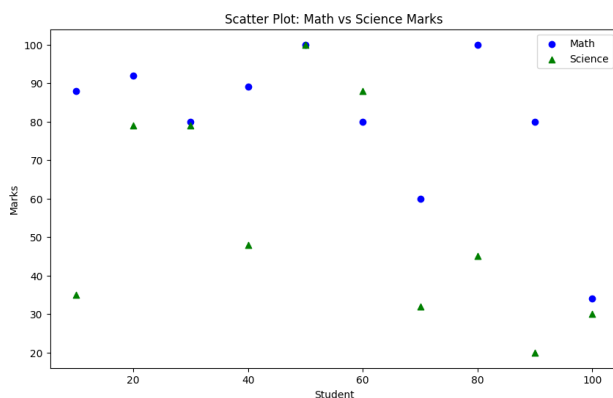
## Algorithm

1. Import required libraries (matplotlib.pyplot)
2. Define the data for math marks, science marks, and marks range
3. Create a new figure and axis
4. Plot math marks as blue dots
5. Plot science marks as green triangles
6. Set the title, x-label, and y-label for the plot
7. Add a legend to distinguish between math and science marks
8. Display the plot

## Code

```
import matplotlib.pyplot as plt
math_marks = [88, 92, 80, 89, 100, 80, 60, 100, 80, 34]
science_marks = [35, 79, 79, 48, 100, 88, 32, 45, 20, 30]
marks_range = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
fig, ax = plt.subplots(figsize=(10, 6))
ax.scatter(marks_range, math_marks, color='blue', label='Math')
ax.scatter(marks_range, science_marks, color='green', marker='^', label='Science')
ax.set_title('Scatter Plot: Math vs Science Marks')
ax.set_xlabel('Student')
ax.set_ylabel('Marks')
ax.legend()
plt.show()
```

## Output



## Result

The scatter plot visually compares Math and Science marks, revealing performance trends and outliers across 10 students.